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\*\*FILE\*\*ID\*\*COPYCLI

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```
1 0001 0 MODULE copycli ( ! Declarations of CLI data structures for the COPY command
2 0002 0 LANGUAGE (BLISS32),
3 0003 0 IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 ****
8 0008 1 ****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1 *
29 0029 1 ****
30 0030 1 *
31 0031 1 ++
32 0032 1 FACILITY: COPY
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This module contains all the routines for processing the COPY command
37 0037 1 qualifiers.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 VAX/VMS operating system, unprivileged user mode utility,
42 0042 1 operates at non-AST level.
43 0043 1
44 0044 1 --
45 0045 1 ++
46 0046 1
47 0047 1 AUTHOR: Carol Peters, CREATION DATE: 28 April 1978 07:36
48 0048 1
49 0049 1 REVISION HISTORY:
50 0050 1
51 0051 1 V3-003 TSK0003 Tamar Krichevsky 9-FEB-1984
52 0052 1 Change addressing mode for LIB$CVT_DTB and LIB$LOOKUP_KEY
53 0053 1 to general.
54 0054 1
55 0055 1 V3-002 TSK0002 Tamar Krichevsky 10-Aug-1983
56 0056 1 Fix default for /PROTECTION qualifier so that if fields which
57 0057 1 have not been specified are left alone.
```

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73 0073 1  
74 0074 1 |--

V3-001 TSK0001      Tamar Krichevsky      18-Jan-1983  
Rework whole module. Change Command Language Interface over  
to new CLI. Create two global routines: COPY\$GET\_GLOBAL\_QUAL  
and COPY\$GET\_LOCAL\_QUAL. These routines simulate parts of the  
CLI so that COPY/QQUAL a,b/NOQUAL,c \* and COPY a,b/NOQUAL,c \*/QUAL  
behave the same.

Add the common qualifiers (/BEFORE, /SINCE, /CREATED, /MODIFIED  
/BACKUP, /EXPIRED, /EXCLUDE, /BY\_OWNER AND /CONFIRM).

003 TMH0003      T. Halvorsen      17-Nov-1979  
Add cleanup2\_desc for output parameter cleanup call.

002 TMH0002      T. Halvorsen      25-Jul-1979  
Add relative volume placement control

```
76    0075 1 |  
77    0076 1 | Table of contents  
78    0077 1 |  
79    0078 1 |  
80    0079 1 FORWARD ROUTINE  
81    0080 1 copy$get_global_qual: NOVALUE,  
82    0081 1 copy$get_local_qual : NOVALUE,  
83    0082 1 protection_parse : NOVALUE,  
84    0083 1 parse_protection_value : NOVALUE;  
85    0084 1 | Get global command qualifiers  
86    0085 1 | Get local command qualifiers  
87    0086 1 | Parse routine for /PROTECTION qualifier  
88    0087 1 | Parse the /PROTECTION keyword values (RWED)  
89    0088 1 |  
90    0089 1 LIBRARY 'SYSSLIBRARY:STARLET.L32';  
91    0090 1 REQUIRE 'SRCS:COPYMSG.REQ';  
92    0171 1 | Common system definitions  
93    0172 1 | Put message macros  
94    0173 1 | Literals  
95    0174 1 |  
96    0175 1 |  
97    0176 1 BIND  
98    0177 1 | Descriptors for the qualifier names, used while parsing the command line.  
99    0178 1 |  
100   0179 1 |  
101   0180 1 verb_desc      = $DESCRIPTOR('$VERB'),  
102   0181 1 log_msg_desc   = $DESCRIPTOR('LOG'),  
103   0182 1 concatenate_desc = $DESCRIPTOR('CONCATENATE'),  
104   0183 1 new_version_desc = $DESCRIPTOR('NEW VERSION'),  
105   0184 1 allocation_desc  = $DESCRIPTOR('ALLOCATION'),  
106   0185 1 contiguous_desc = $DESCRIPTOR('CONTIGUOUS'),  
107   0186 1 extension_desc = $DESCRIPTOR('EXTENSION'),  
108   0187 1 file_max_desc   = $DESCRIPTOR('FILE MAXIMUM'),  
109   0188 1 protection_desc = $DESCRIPTOR('PROTECTION'),  
110   0189 1 read_check_desc = $DESCRIPTOR('READ CHECK'),  
111   0190 1 write_check_desc = $DESCRIPTOR('WRITE CHECK'),  
112   0191 1 overlay_desc    = $DESCRIPTOR('OVERLAY'),  
113   0192 1 volume_desc     = $DESCRIPTOR('VOLUME'),  
114   0193 1 truncate_desc  = $DESCRIPTOR('TRUNCATE'),  
115   0194 1 replace_desc    = $DESCRIPTOR('REPLACE')  
116   0195 1 ;  
117   0196 1 |  
118   0197 1 | Macros  
119   0198 1 |  
120   0199 1 |  
121   0200 1 |  
122   0201 1 |  
123   0202 1 MACRO  
124   0203 1 | These macros are all used in processing the /PROTECTION qualifier.  
125   0204 1 |  
126   M 0205 1 BIT_LOCATION( L, B, S, X) =           ! Extract a bit from a field definition  
127   M 0206 1 B %,  
128   M 0207 1 PROT_MASK(DISP,SIZE) =             ! XABSW_PRO bit and mask definitions macros  
129   M 0208 1 MASK_DEF(XABSW_PRO,DISP,SIZE) %,  
130   M 0209 1 MASK_DEF(L,B,S,X,DISP,SIZE) =  
131   M 0210 1 0, B+DISP, SIZE, X %;  
132   M 0211 1
```

```
: 133      0212 1 ! External declarations
: 134      0213 1
: 135      0214 1
: 136      0215 1
: 137      0216 1 EXTERNAL
: 138      0217 1   copy$prot_value,
: 139      0218 1   copy$cli_status    : $BLOCK,
: 140      0219 1   copy$sem_status   : $BLOCK
: 141      0220 1 ;
: 142      0221 1
: 143      0222 1 REQUIRE
: 144      0223 1   'SRC$:COPY.REQ':
```

! Protection keyword value table  
! Results of the command line parse  
! Semantics for copy operation  
  
! Field definitions for COPY\$CLI\_STATUS and COPY\$SEM

COPYCLI  
V04-000

{ 4  
15-Sep-1984 23:37:50  
15-Sep-1984 22:42:03

VAX-11 Bliss-32 V4.0-742  
\$\_\$255\$DUA28:[COPY.SRC]VMSMAC.REQ;1

Page 5  
(1)

: %PRINT: File: VMSMAC.B32, Version V04-000, Edit 1, WWC, 09-JAN-1978

```
: 145      0678 1
: 146      0679 1
: 147      0680 1 EXTERNAL ROUTINE
: 148      0681 1   cli$present,
: 149      0682 1   cli$get value,
: 150      0683 1   lib$qual_file_parse,
: 151      0684 1   lib$cvt_dtb : ADDRESSING_MODE(GENERAL),
: 152      0685 1   lib$lookup_key: ADDRESSING_MODE(GENERAL);
```

! Determine if a qualifier appears on the command line  
! Retrieve the qualifier's value  
! Parse the common file qualifiers  
! Convert String to binary  
! Library keyword lookup routine

```
154      0686 1 | Global variables
155      0687 1 |
156      0688 1 |
157      0689 1 |
158      0690 1 | GLOBAL
159      0691 1 |
160      0692 1 |
161      0693 1 | The following variables hold the current qualifier and option values gathered during the
162      0694 1 | CLI processing. These values may change as local qualifiers are parsed. The global
163      0695 1 | values are stored in COPY$CLI_STATUS.
164      0696 1 |
165      0697 1 |
166      0698 1 | common_qual_context,
167      0699 1 | curr_allocation_value,
168      0700 1 | curr_extension_value,
169      0701 1 | curr_file_max_value,
170      0702 1 | curr_protection_or :
171          0703 1 |     $BBLOCK[ 2 ]
172          0704 1 |     INITIAL (REP 2 OF BYTE (0)),
173          0705 1 | curr_protection_and :
174          0706 1 |     $BBLOCK[ 2 ]
175          0707 1 |     INITIAL (REP 2 OF BYTE (-1)),
176          0708 1 | curr_volume_value : INITIAL (0)
177          0709 1 |
178          0710 1 | :
```

| Common qualifier data area  
| Binary allocation value  
| Binary extension value  
| Binary file maximum value  
| Protection mask to set bits

| Protection mask to clear bits

| Relative volume number

```
180      0711 1 GLOBAL ROUTINE COPY$GET_GLOBAL_QUAL: NOVALUE =      ! Retrieve gloabl qualifiers from the CLI
181      0712 1
182      0713 1
183      0714 1 ++ FUNCTIONAL DESCRIPTION:
184      0715 1
185      0716 1 This routine retrieves the command level qualifiers from the
186      0717 1 Command Language Interpreter. It treats any qualifiers found
187      0718 1 as global, even if they are only locally present. This ensures
188      0719 1 that qualifiers which appear on the output file have the same
189      0720 1 effect as ones which appear on the verb.
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      0748 2
      0749 2
      0750 2
      0751 2
      0752 2
      0753 2
      0754 2
      0755 2
      0756 2
      0757 2
      0758 2
      0759 2
      0760 2
      0761 2
      0762 2
      0763 2
      0764 2
      0765 2
      0766 2
      0767 3

      0712 1
      0713 1
      0714 1
      0715 1
      0716 1
      0717 1
      0718 1
      0719 1
      0720 1
      0721 1
      0722 1
      0723 1
      0724 1
      0725 1
      0726 1
      0727 1
      0728 1
      0729 1
      0730 1
      0731 1
      0732 1
      0733 1
      0734 1
      0735 1
      0736 1
      0737 1
      0738 1
      0739 1
      0740 1
      0741 1
      0742 1
      0743 1
      0744 1
      0745 2
      0746 2
      0747 2
      0748 2
      0749 2
      0750 2
      0751 2
      0752 2
      0753 2
      0754 2
      0755 2
      0756 2
      0757 2
      0758 2
      0759 2
      0760 2
      0761 2
      0762 2
      0763 2
      0764 2
      0765 2
      0766 2
      0767 3

      0712 1
      0713 1
      0714 1
      0715 1
      0716 1
      0717 1
      0718 1
      0719 1
      0720 1
      0721 1
      0722 1
      0723 1
      0724 1
      0725 1
      0726 1
      0727 1
      0728 1
      0729 1
      0730 1
      0731 1
      0732 1
      0733 1
      0734 1
      0735 1
      0736 1
      0737 1
      0738 1
      0739 1
      074
```

```
237      0768 3
238      0769 3
239      0770 3
240      0771 3
241      0772 3
242      0773 3
243      0774 3
244      0775 2
245      0776 2
246      0777 2
247      0778 2
248      0779 2
249      0780 2
250      0781 2
251      0782 2
252      0783 2
253      0784 2
254      0785 4
255      0786 4
256      0787 4
257      0788 4
258      0789 4
259      0790 4
260      0791 4
261      0792 4
262      0793 4
263      0794 4
264      0795 4
265      0796 4
266      0797 4
267      0798 4
268      0799 4
269      0800 4
270      0801 4
271      0802 4
272      0803 4
273      0804 4
274      0805 4
275      0806 4
276      0807 4
277      0808 3
278      0809 4
279      0810 4
280      0811 4
281      0812 4
282      0813 4
283      0814 5
284      0815 5
285      0816 4
286      0817 4
287      0818 4
288      0819 3
289      0820 2
290      0821 2
291      0822 2
292      0823 2
293      0824 2

| It was an APPEND command. Set the append command flag and parse the APPEND
| specific qualifiers.
| append_command = TRUE;
| new_version_qual = CLISPRESENT( new_version_desc );
| END
ELSE BEGIN
| It was a COPY command. Parse the COPY specific qualifiers.
| /CONCATENATE, /TRUNCATE -- Set the appropriate flags if the qualifier
| was given or negated.
SELECTONE CLISPRESENT( concatenate_desc ) OF
SET
[ CLIS_PRESENT ] : BEGIN
concat_qual = TRUE;
explicit_concat_qual = TRUE;
END;
[ CLIS_NEGATED ] : negated_concat_qual = TRUE;
TES;

SELECTONE CLISPRESENT( truncate_desc ) OF
SET
[ CLIS_PRESENT,
CLIS_LOCRES ] : truncate_qual = TRUE;
[ CLIS_NEGATED ] : truncate_negated = TRUE;
TES;

| /OVERLAY and /REPLACE
overlay_qual = CLISPRESENT( overlay_desc );
replace_qual = CLISPRESENT( replace_desc );

| /VOLUME
| IF (volume_qual = CLISPRESENT( volume_desc ))
THEN BEGIN
| Get the value and convert it from a string into binary.
CLISGET VALUE( volume_desc, cli_desc );
IF NOT Trtn_status = [IBSCVT_DTB(.cli_desc[DSC$W_LENGTH ],
.cli_desc[DSCSA_POINTER], volume_value])
THEN
PUT MESSAGE( MSG8_INVQUAVAL, 2, cli_desc, volume_desc );
curr_volume_value = .volume_value;
END;
END;

| Parse the qualifiers which are applicable to both commands. First
| the common qualifiers (/CONFIRM, /BEFORE, /SINCE, /EXCLUDE, /CREATED,
| /MODIFIED, /BACKUP, /EXPIRED, /BY_OWNER)
```

```
294      0825 2
295      0826 2
296      0827 2
297      0828 2
298      0829 2
299      0830 2
300      0831 2
301      0832 2
302      0833 2
303      0834 2
304      0835 2
305      0836 2
306      0837 2
307      0838 2
308      0839 2
309      0840 2
310      0841 2
311      0842 2
312      0843 2
313      0844 2
314      0845 2
315      0846 2
316      0847 2
317      0848 2
318      0849 2
319      0850 2
320      0851 2
321      0852 2
322      0853 2
323      0854 2
324      0855 2
325      0856 2
326      0857 2
327      0858 2
328      0859 2
329      0860 2
330      0861 2
331      0862 2
332      0863 2
333      0864 3
334      0865 3
335      0866 3
336      0867 3
337      0868 3
338      0869 3
339      0870 3
340      0871 4
341      0872 4
342      0873 3
343      0874 3
344      0875 3
345      0876 3
346      0877 3
347      0878 3
348      0879 3
349      0880 3
350      0881 3

; Initialize the flags longword so that all of the common qualifiers will
; be parsed. Then, parse the qualifiers.

common_qual_flags = LIBSM_CQF_CONFIRM OR LIBSM_CQF_BEFORE OR
                     LIBSM_CQF_SINCE OR LIBSM_CQF_CREATED OR
                     LIBSM_CQF_MODIFIED OR LIBSM_CQF_BACKUP OR
                     LIBSM_CQF_EXPIRED OR LIBSM_CQF_EXCLUDE OR
                     LIBSM_CQF_BYOWNER;

IF NOT (rtn_status = LIB$QUAL_FILE_PARSE( common_qual_flags, common_qual_context ))
THEN
    PUT_MESSAGE( .rtn_status );

; /LOG, /READ_CHECK, /WRITE_CHECK and /CONTIGUOUS
log_msg_qual = CLIPRESENT( log_msg_desc );
read_chk_qual = CLIPRESENT( read_check_desc );
SELECTONE CLIPRESENT( write_check_desc ) OF
SET
    [ CLIS_PRESENT,
      CLIS_LOCRES ] : write_chk_qual = TRUE;
    [ CLIS_NEGATED ] : write_chk_negated = TRUE;
TES;
write_chk_qual = CLIPRESENT( write_check_desc );

SELECTONE CLIPRESENT( contiguous_desc ) OF
SET
    [ CLIS_PRESENT,
      CLIS_LOCRES ] : contig_qual = TRUE;
    [ CLIS_NEGATED ] : contig_negated = TRUE;
TES;

; /ALLOCATION
IF (alloc_qual = CLIPRESENT( allocation_desc ))
THEN
    BEGIN
        ; Get the value and convert it from a string into binary.
        CLISGET_VALUE( allocation_desc, cli_desc );
        IF NOT Trtn_status = LIB$VT_DFB(.cli_desc[ DSCSW_LENGTH ],
                                         .cli_desc[ DSC$A_POINTER ], allocation_value)
        THEN
            PUT_MESSAGE( MSGS_INVQUAVAL, 2, cli_desc, allocation_desc );
            curr_allocation_value = allocation_value;
        END;

; /EXTENSION
IF (extend_qual = CLIPRESENT( extension_desc ))
```

I 4  
15-Sep-1984 23:37:50 VAX-11 Bliss-32 v4.0-742 Page 11  
14-Sep-1984 12:14:17 DISK\$VMSMASTER:[COPY.SRC]COPYCLI.B32;1 (4)

```

351 0882 THEN
352 0883 BEGIN
353 0884
354 0885 ! Get the value and and convert it from a string into binary.
355 0886
356 0887 CLISGET_VALUE( extension_desc, cli_desc );
357 0888 IF NOT [rtn_status = LIB$CVT_DTB(.cli_desc[ DSCSW_LENGTH ],
358 0889 .cli_desc[ DSCSA_POINTER ], extension_value))
359 0890 THEN
360 0891 PUT_MESSAGE( MSGS_INVQUAVAL, 2, cli_desc, extension_desc );
361 0892 curr_extension_value = .extension_value;
362 0893 END;
363
364
365 0894 ! /FILE_MAXIMUM
366 0895
367 0896 IF (file_max_qual = CLISPRESNT( file_max_desc ))
368 0897 THEN
369 0898 BEGIN
370 0899
371 0900 ! Get the value and and convert it from a string into binary.
372 0901
373 0902 CLISGET_VALUE( file_max_desc, cli_desc );
374 0903 IF NOT [rtn_status = LIB$CVT_DTB(.cli_desc[ DSCSW_LENGTH ],
375 0904 .cli_desc[ DSCSA_POINTER ], file_max_value))
376 0905 THEN
377 0906 PUT_MESSAGE( MSGS_INVQUAVAL, 2, cli_desc, file_max_desc );
378 0907 curr_file_max_value = .file_max_value;
379 0908 END;
380 0909
381 0910 ! /PROTECTION
382 0911
383 0912
384 0913 IF (protect_qual = CLISPRESNT( protection_desc ))
385 0914 THEN
386 0915 BEGIN
387 0916
388 0917 ! Parse the keyword value and save the results.
389 0918
390 0919 ! protection_parse();
391 0920 protection_and = .(curr_protection_and);
392 0921 protection_or = .(curr_protection_or);
393 0922 END;
394 0923
395 0924 END; ! routine COPYSGET_GLOBAL_QUAL
396 0925

```

.TITLE COPYCL  
.IDENT \V04-000\

.PSECT SPLITS,NOWRT,NOEXE.2

42 52 45 56 24	00000	P.AAB:	.ASCII	\\$VERB\	
	00005		.BLKB	3	
	00000005.	00008	P.AAA:	.LONG	5
	00000000.	0000C		.ADDRESS	P.AAB
47 4F 4C	00010	P.AAD:	.ASCII	\LOG\	
	00013		.BLKB	1	

45 54 41 4E 45 54 41 43	00000003.	00014 P.AAC: .LONG 3
	00000000.	00018 .ADDRESS P.AAD
4E 4F 49 53 52 45 56 5F	0000000B.	0001C P.AAF: .ASCII \CONCATENATE\
	00000000.	00027 .BLKB 1
4E 4F 49 54 41 43 4F	0000000B.	00028 P.AAE: .LONG 11
	00000000.	0002C .ADDRESS P.AAF
4E 4F 49 54 41 43 4C	0000000A.	00030 P.AAH: .ASCII \NEW_VERSION\
	00000000.	0003B .BLKB 1
4E 4F 49 54 41 43 4C	0000000A.	00040 P.AAG: .LONG 11
	00000000.	00044 .ADDRESS P.AAH
53 55 4F 55 47 49 54	0000000A.	0004E P.AAJ: .ASCII \ALLOCATION\
	00000000.	00050 .BLKB 2
4E 4F 49 53 4E 45 54	0000000A.	00054 P.AAI: .LONG 10
	00000000.	00058 .ADDRESS P.AAJ
4E 4F 49 53 4E 45 54	0000000A.	00062 P.AAL: .ASCII \CONTIGUOUS\
	00000000.	00064 .BLKB 2
4E 4F 49 53 4E 45 54	00000009.	00075 P.AAM: .LONG 10
	00000000.	0007C .ADDRESS P.AAN
4D 55 4D 49 58 41 4D	0000000C.	00080 P.AAP: .ASCII \FILE_MAXIMUM\
	5F 45 4C 49 46	0008C P.AAO: .LONG 12
4E 4F 49 54 43 45 54	00000000.	00090 .ADDRESS P.AAP
	4F 52 50	00094 P.AAR: .ASCII \PROTECTION\
4B 43 45 48 43 5F 44	0000000A.	0009E .BLKB 2
	00000000.	000A0 P.AAQ: .LONG 10
4B 43 45 48 43 5F 45	0000000A.	000A4 P.AAT: .ADDRESS P.AAR
	00000000.	000B2 .ASCII \READ_CHECK\
4B 43 45 48 43 5F 45	0000000A.	000B4 P.AAS: .BLKB 2
	00000000.	000B8 .LONG 10
4B 43 45 48 43 5F 45	0000000B.	000BC P.AAV: .ADDRESS P.AAT
	00000000.	000C7 .ASCII \WRITE_CHECK\
59 41 4C 52 45 56 4F	00000007.	000C8 P.AAU: .BLKB 1
	00000000.	000CC P.AAX: .LONG 11
45 4D 55 4C 4F 56	00000000.	000D0 P.AAY: .ADDRESS P.AAV
	00000000.	000D7 .BLKB 1
45 4D 55 4C 4F 56	00000006.	000DC P.AAW: .LONG 7
	00000000.	000E0 .ADDRESS P.AAX
45 54 41 43 4E 55	00000005.	000E6 .ASCII \VOLUME\
	52 54	000EC P.AAZ: .BLKB 2
45 43 41 4C 50 45 52	00000008.	000E8 P.AAY: .LONG 6
	00000000.	000F0 .ADDRESS P.AAZ
45 43 41 4C 50 45 52	00000007.	000F8 P.ABA: .ASCII \TRUNCATE\
	00000000.	000FC P.ABD: .LONG 8
45 43 41 4C 50 45 52	00000007.	00100 P.ABC: .ADDRESS P.ABB
	00000000.	00107 .ASCII \REPLACE\
	00000000.	00108 .BLKB 1
	00000000.	0010C .LONG 7
	00000000.	.ADDRESS P.ABD

.PSECT SGLOBALS,NOEXE,2

00000 COMMON\_QUAL CONTEXT::  
.BLKB 4

00004 CURR\_ALLOCATION\_VALUE::  
 00008 CURR\_EXTENSION\_VALUE::  
 0000C CURR\_FILE\_MAX\_VALUE::  
 00# 00010 CURR\_PROTECTION\_OR::  
 .BYTE 0[2]  
 00012 CURR\_PROTECTION\_AND::  
 .BYTE -1[2]  
 00016 CURR\_VOLUME\_VALUE::  
 .BLKB 2  
 00000000 00018 CURR\_VOLUME\_VALUE::  
 .LONG 0

VERB\_DESC= P.AAA  
 LOG\_MSG\_DESC= P.AAC  
 CONCATENATE\_DESC= P.AAE  
 NEW\_VERSION\_DESC= P.AAG  
 ALLOCATION\_DESC= P.AAI  
 CONTIGUOUS\_DESC= P.AAK  
 EXTENSION\_DESC= P.AAM  
 FILE\_MAX\_DESC= P.AAO  
 PROTECTION\_DESC= P.AAQ  
 READ\_CHECK\_DESC= P.AAS  
 WRITE\_CHECK\_DESC= P.AAU  
 OVERLAY\_DESC= P.AAW  
 VOLUME\_DESC= P.AAY  
 TRUNCATE\_DESC= P.ABA  
 REPLACE\_DESC= P.ABC  
 .EXTRN COPYMSG\_NUMBER  
 .EXTRN COPYSPROT\_VALUE  
 .EXTRN COPYSCLI\_STATUS  
 .EXTRN COPYSSEM\_STATUS  
 .EXTRN CLIS\_PRESENT, CLIS\_NEGATED  
 .EXTRN CLIS\_LOCRES, CLIS\_LOCNEG  
 .EXTRN CLISPRESENT, CLISGET\_VALUE  
 .EXTRN LIB\$QUAL\_FILE\_PARSE  
 .EXTRN LIB\$CVT\_DTB, [IB\$LOOKUP\_KEY]

.PSECT SCODE\$,NOWRT,2

		OFFC 00000	.ENTRY	
08	00	SB 00000000G 00 9E 00002	MOVAB	R7 R8 R9,R10 R11
		SA 00000000G 00 9E 00009	MOVAB	LIB\$STOP, R11
		59 0000G CF 9E 00010	MOVAB	LIB\$SIGNAL, R10
		58 0000G CF 9E 00015	MOVAB	COPYMSG_NUMBER, R9
		57 0000 CF 9E 0001A	MOVAB	CLISPRESENT, R8
		56 0000G CF 9E 0001F	MOVAB	VOLUME_DESC, R7
		5E 00000G OC C2 00024	SUBL2	COPYSCLI_STATUS+4, R6
		6E 00 2C 00027	MOVCS	#12, SP
		04 AE 0002C		#0, (SP), #0, #8, CLI_DESC
07	AE	02 90 0002E	MOVB	#2, CLI_DESC+3
		04 AE 9F 00032	PUSHAB	CLI_DESC
		FF20 C7 9F 00035	PUSHAB	VERB_DESC
		02 FB 00039	CALLS	#2, CLISGET_VALUE

15-Sep-1984 23:37:50 VAX-11 Bliss-32 v4.0-742  
14-Sep-1984 12:14:17 DISKSVMMASTER:[COPY.SRC]

			69	01 FB 00116	CALLS	#1. COPY\$MSG_NUMBER	
			50 DD 00119	PUSHL	R0		
			04 FB 0011B	CALLS	#4. LIB\$SIGNAL		
			14 11 0011E	BRB	BS		
			57 DD 00120	PUSHL	R7		
		08	AE 9F 00122	PUSHAB	CLI_DESC		
			02 DD 00125	PUSHL	#2		
		7E	132C 8F 3C 00127	MOVZWL	#4908, -(SP)		
		69	01 FB 0012C	CALLS	#1. COPY\$MSG_NUMBER		
			50 DD 0012F	PUSHL	R0		
			04 FB 00131	CALLS	#4. LIB\$STOP		
	0000'	CF	14 A6 D0 00134	MOVL	COPY\$CLI_STATUS+24, Curr_Volume_Value	0818	
		6E	01FF 8F 3C 0013A	MOVZWL	#511, COMMON_QUAL_FLAGS	0832	
			0000' 04 CF 9F 0013F	PUSHAB	COMMON_QUAL_CONTEXT	0835	
	0000G	CF	02 AE 9F 00143	PUSHAB	COMMON_QUAL_FLAGS		
		52	D0 00146	CALLS	#2. LIB\$QUAL_FILE_PARSE		
		2A	50 DD 0014B	MOVL	RTN_STATUS		
			52 E8 0014E	BLBS	RTN_STATUS, 118		
			52 DD 00151	PUSHL	RTN_STATUS		
		69	01 FB 00153	CALLS	#1. COPY\$MSG_NUMBER		
		50	01 7A 00156	EMUL	#1. R0, #0, -(SP)		
		8E	08 7B 00158	EDIV	#8. (SP)+, R0, R0		
		04	50 D1 00160	Cmpl	R0, #4		
			0C 13 00163	BEQL	10\$		
		69	52 DD 00165	PUSHL	RTN_STATUS		
			01 FB 00167	CALLS	#1. COPY\$MSG_NUMBER		
		6A	50 DD 0016A	PUSHL	R0		
			01 FB 0016C	CALLS	#1. LIB\$SIGNAL		
			0A 11 0016F	BRB	11\$		
			52 DD 00171	PUSHL	RTN_STATUS		
		69	01 FB 00173	CALLS	#1. COPY\$MSG_NUMBER		
			50 DD 00176	PUSHL	R0		
		6B	01 FB 00178	CALLS	#1. LIB\$STOP		
		FF2C	C7 9F 00178	PUSHAB	LOG_MSG_DESC	0842	
		68	01 FB 0017F	CALLS	#1. CLISPRES		
	A6	01	50 F0 00182	INSV	R0, #1, #1, COPY\$CLI_STATUS		
		01	CC A7 9F 00188	PUSHAB	READ_CHECK_DESC	0844	
	66	01	68 01 FB 00188	CALLS	#1. CLISPRES		
		00	E0 A7 9F 00193	INSV	R0, #0, #1, COPY\$CLI_STATUS+4		
		68	01 FB 00196	PUSHAB	WRITE_CHECK_DESC	0846	
		00000000G	8F 50 D1 00199	CALLS	#1. CLISPRES		
			09 13 001A0	Cmpl	R0, #CLIS_PRESENT	0848	
		00000000G	8F 50 D1 001A2	BEQL	12\$		
			05 12 001A9	Cmpl	R0, #CLIS_LOCRES		
		66	08 88 001AB	BNEQ	13\$		
		00000000G	8F 0C 11 001AE	BRB	#8. COPY\$CLI_STATUS+4	0849	
			50 D1 001B0	Cmpl	R0, #CLIS_NEGATED		
		66	08 88 001AB	BNEQ	14\$		
		00000000G	8F 0C 12 001B7	BRB	#16. COPY\$CLI_STATUS+4	0850	
			10 88 001B9	Cmpl	R0, #CLIS_NEGATED		
		66	E0 A7 9F 001BC	PUSHAB	WRITE_CHECK_DESC		
		03	01 FB 001C2	CALLS	#1. CLISPRES		
		FF7C	C7 9F 001C7	INSV	R0, #3, #1, COPY\$CLI_STATUS+4	0852	
		68	01 FB 001CB	PUSHAB	CONTIGUOUS_DESC		
		00000000G	8F 50 D1 001CE	CALLS	#1. CLISPRES	0854	
			09 13 001D5	Cmpl	R0, #CLIS_PRESENT		
				BEQL	15\$	0856	

N 4  
15-Sep-1984 23:37:50 VAX-11 Bliss-32 V4.0-742 Page 16  
14-Sep-1984 12:14:17 DISKSVMMASTER:[COPY.SRC]COPYCLI.B32;1 (4)

7E	00	50	00	50	01	7A 002AA	EMUL	#1, R0, #0, -(SP)		
50	8E	04	08	7B 002AF	08	7B 002AF	EDIV	#8, -(SP)+, R0, R0		
			50	D1 002B4	50	D1 002B4	CMP	R0 #4		
			17	13 002B7	17	13 002B7	BEQL	21\$		
			90	A7 002B9	A7	9F 002B9	PUSHAB	EXTENSION_DESC		
			08	AE 002BC	AE	9F 002BC	PUSHAB	CLI_DESC		
			7E	132C	02	DD 002BF	PUSHL	#2		
			69	8F 002C1	01	FB 002C6	MOVZWL	#4908, -(SP)		
			6A	50 002C9	50	DD 002C9	CALLS	#1, COPY\$MSG_NUMBER		
				04	FB 002CB	PUSHL	R0			
				15	11 002CE	CALLS	#4, LIB\$SIGNAL			
				90	A7 002D0	BRB	22\$			
				08	AE 002D3	PUSHAB	EXTENSION_DESC			
				02	DD 002D6	PUSHAB	CLI_DESC			
				7E	132C	02	DD 002D8	PUSHL	#2	
				69	8F 002D8	01	FB 002DD	MOVZWL	#4908, -(SP)	
				50	DD 002E0	CALLS	#1, COPY\$MSG_NUMBER			
				04	FB 002E2	PUSHL	R0			
			0000'	6B	04	DD 002E5	CALLS	#4, LIB\$STOP		
				CF	08	A6 002E5	MOVL	COPY\$CLI_STATUS+12, CURR_EXTENSION_VALUE	0892	
					A4	A7 9F 002EB	PUSHAB	FILE MAX_DESC	0898	
FF	A6	01	68	01	50	FB 002EE	CALLS	#1, CLI\$PRESENT		
			02	50	F0 002F1	INSV	R0, #2, #1, COPY\$CLI_STATUS+3			
			6B	50	E9 002F7	BLBC	R0, 26\$			
				04	AE 9F 002FA	PUSHAB	CLI_DESC	0904		
				A4	A7 9F 002FD	PUSHAB	FILE MAX_DESC			
			0000G	CF	02	FB 00300	CALLS	#2, CLI\$GET VALUE		
					OC	A6 9F 00305	PUSHAB	COPY\$CLI_STATUS+16	0906	
			00000000G	7E	OC	AE DD 00308	PUSHL	CLI_DESC+4	0905	
				00	AE 3C 0030B	MOVZWL	CLI_DESC, -(SP)			
				52	FB 0030F	CALLS	#3, LIB\$CVT DTB			
				43	50 D0 00316	MOVL	R0, RTN STATUS			
				7E	52 E8 00319	BLBS	RTN STATUS, 25\$			
				69	8F 3C 0031C	MOVZWL	#4908, -(SP)	0908		
				132C	01 FB 00321	CALLS	#1, COPY\$MSG_NUMBER			
				69	01 7A 00324	EMUL	#1, R0, #0, -(SP)			
				50	08 7B 00329	EDIV	#8, -(SP)+, R0, R0			
				50	50 D1 0032E	CMP	R0 #4			
				04	17 13 00331	BEQL	24\$			
					A4 A7 9F 00333	PUSHAB	FILE MAX_DESC			
					08 AE 9F 00336	PUSHAB	CLI_DESC			
					02 DD 00339	PUSHL	#2			
					7E 132C	8F 3C 00338	MOVZWL	#4908, -(SP)		
					69	01 FB 00340	CALLS	#1, COPY\$MSG_NUMBER		
					50	50 DD 00343	PUSHL	R0		
					6A	04 FB 00345	CALLS	#4, LIB\$SIGNAL		
					15 11 00348	BRB	25\$			
					A4 A7 9F 0034A	PUSHAB	FILE MAX_DESC			
					08 AE 9F 0034D	PUSHAB	CLI_DESC			
					02 DD 00350	PUSHL	#2			
					7E 132C	8F 3C 00352	MOVZWL	#4908, -(SP)		
					69	01 FB 00357	CALLS	#1, COPY\$MSG_NUMBER		
					50	50 DD 0035A	PUSHL	R0		
					04 FB 0035C	CALLS	#4, LIB\$STOP			
			0000'	6B	0C B8	A6 D0 0035F	MOVL	COPY\$CLI_STATUS+16, CURR_FILE_MAX_VALUE	0909	
				CF	01	A7 9F 00365	PUSHAB	PROTECTION DESC	0915	
					68	01 FB 00368	CALLS	#1, CLI\$PRESENT		

COPYCLI  
V04-000

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15-Sep-1984 23:37:50  
14-Sep-1984 12:14:17

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[COPY.SRC]COPYCLI.B32;1

Page 18  
(4)

FF A6	01	05	50 F0 0036B	INSV	RO. #5 #1, COPYSCLI_STATUS+3
		11	50 E9 00371	BLBC	RO. 27\$
0000V	CF	00	FB 00374	CALLS	#0, PROTECTIONPARSE
12 A6	0000'	CF	B0 00379	MOVW	CURR_PROTECTION_AND, COPYSCLI_STATUS+22
10 A6	0000'	CF	B0 0037F	MOVW	CURR_PROTECTION_OR, COPYSCLI_STATUS+20
			04 00385 27\$:	RET	

; Routine Size: 902 bytes, Routine Base: SCODE\$ + 0000

```
396 0926 1 GLOBAL ROUTINE COPY$GET_LOCAL_QUAL: NOVALUE = ! Retrieve local qualifiers from the CLI
397 0927 1
398 0928 1
399 0929 1
400 0930 1
401 0931 1
402 0932 1
403 0933 1
404 0934 1
405 0935 1
406 0936 1
407 0937 1
408 0938 1
409 0939 1
410 0940 1
411 0941 1
412 0942 1
413 0943 1
414 0944 1 COPY$CLI_STATUS - Relevant command and qualifier indicators set
415 0945 1
416 0946 1
417 0947 1
418 0948 1
419 0949 1
420 0950 1
421 0951 1
422 0952 1
423 0953 1
424 0954 1
425 0955 1
426 0956 2
427 0957 2
428 0958 2
429 0959 2
430 0960 2
431 0961 2
432 0962 2
433 0963 2
434 0964 2
435 0965 2 MSG_DESC = $DESCRIPTOR('can''t change quals in the middle of the command')
436 0966 2
437 0967 2
438 0968 2
439 0969 2
440 0970 2
441 0971 2
442 0972 2
443 0973 2
444 0974 2
445 0975 2
446 0976 2
447 0977 2
448 0978 2
449 0979 2
450 0980 2
451 0981 2
452 0982 2

1+ FUNCTIONAL DESCRIPTION:
This routine retrieves the local command qualifiers from the command line.

FORMAL PARAMETERS:
None

IMPLICIT INPUTS:
None

IMPLICIT OUTPUTS:
COPY$CLI_STATUS - Relevant command and qualifier indicators set

ROUTINE VALUE:
None

SIDE EFFECTS:
None

!--

BEGIN

LOCAL
rtn_status, ! Status returned from external calls
cli_desc : $BLOCK[ dsc$C_S_BLN ] ! Dynamic string descriptor, points to values
;
! returned from calls to the CLI

BIND

MSG_DESC = $DESCRIPTOR('can''t change quals in the middle of the command')
;

! Initialize descriptor. Also, if a new output file is being created, then
! reset the current qualifier values to the global values. This insures
! that if a previous local qualifier changed the value and, on this
! iteration, there is no local qualifier, the value used when creating the
! output file will be the one given by the global qualifier, not the
! previous local qualifier.

CH$FILL( 0, DSC$C_S_BLN, cli_desc );
cli_desc[ DSC$B_CLASS ] = DSC$K_CLASS_D;

IF not .outfile_open
THEN
```

```
453      0983 3      BEGIN
454      0984 3      curr_allocation_value = .allocation_value;
455      0985 3      curr_extension_value = .extension_value;
456      0986 3      curr_file_max_value = .file_max_value;
457      0987 3      curr_protection_or = .protection_or;
458      0988 3      curr_protection_and = .protection_and;
459      0989 3      curr_volume_value = .volume_value;
460      0990 3      END;

461      0991 222      ! Determine if this is a COPY or APPEND command.
462      0992 222
463      0993 222
464      0994 222
465      0995 222
466      0996 222
467      0997 222      IF NOT .append_command
468      0998 222      THEN
469      0999 222      BEGIN
470      1000 222      ! It is a COPY command. Parse the COPY specific qualifiers.
471      1001 222
472      1002 222
473      1003 222
474      1004 222
475      1005 222
476      1006 222
477      1007 222
478      1008 222
479      1009 222
480      1010 222
481      1011 222
482      1012 222
483      1013 222
484      1014 222
485      1015 222
486      1016 222
487      1017 222      loc_overlay_qual = neg_overlay_qual = FALSE;
488      1018 222      rtn_status = CLISPRESENT( overlay_desc );
489      1019 222      SELECTONE .rtn_status OF
490      1020 222      SET
491      1021 222      [CLIS_LOCRES] : IF NOT .outfile_open
492      1022 222          THEN loc_overlay_qual = TRUE
493      1023 222          ELSE PUT_MESSAGE MSGS_REPLACE, 1, MSG_DESC );
494      1024 222
495      1025 222
496      1026 222
497      1027 222
498      1028 222
499      1029 222      loc_replace_qual = neg_replace_qual = FALSE;
500      1030 222      rtn_status = CLISPRESENT( replace_desc );
501      1031 222      SELECTONE .rtn_status OF
502      1032 222      SET
503      1033 222      [CLIS_LOCRES] : IF NOT .outfile_open
504      1034 222          THEN loc_replace_qual = TRUE
505      1035 222          ELSE PUT_MESSAGE MSGS_REPLACE, 1, MSG_DESC );
506      1036 222
507      1037 222
508      1038 222
509      1039 222      [CLIS_LOCNEG] : IF NOT .outfile_open
509      1039 222          THEN neg_replace_qual = TRUE
509      1039 222          ELSE PUT_MESSAGE MSGS_REPLACE, 1, MSG_DESC );
```

```
510      1040 3      TES:  
511      1041 3  
512      1042 3  
513      1043 3  
514      1044 3  
515      1045 3  
516      1046 3  
517      1047 3  
518      1048 3  
519      1049 3  
520      1050 3  
521      1051 3  
522      1052 3  
523      1053 3  
524      1054 3  
525      1055 3  
526      1056 3  
527      1057 3  
528      1058 3  
529      1059 3  
530      1060 3  
531      1061 3  
532      1062 3  
533      1063 3  
534      1064 3  
535      1065 3  
536      1066 3  
537      1067 4  
538      1068 4  
539      1069 4  
540      1070 4  
541      1071 4  
542      1072 5  
543      1073 5  
544      1074 4  
545      1075 4  
546      1076 4  
547      1077 4  
548      1078 3  
549      1079 3  
550      1080 3  
551      1081 3  
552      1082 3  
553      1083 3  
554      1084 3  
555      1085 3  
556      1086 2  
557      1087 2  
558      1088 2  
559      1089 2  
560      1090 2  
561      1091 2  
562      1092 2  
563      1093 2  
564      1094 2  
565      1095 2  
566      1096 2      ! /TRUNCATE  
                  loc_truncate_qual = neg_truncate_qual = FALSE;  
                  rtn_status = CLISPRESENT( truncate_desc );  
                  SELECTONE .rtn_status OF  
                      SET  
                          [CLIS_LOCRES] : IF NOT .outfile_open  
                              THEN loc_truncate_qual = TRUE  
                              ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );  
                          [CLIS_LOCNEG] : IF NOT .outfile_open  
                              THEN neg_truncate_qual = TRUE  
                              ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );  
                  TES:  
  
                  ! /VOLUME  
                  loc_volume_qual = neg_volume_qual = FALSE;  
                  rtn_status = CLISPRESENT( volume_desc );  
                  SELECTONE .rtn_status OF  
                      SET  
                          [CLIS_LOCRES] : IF NOT .outfile_open  
                              THEN  
                                  BEGIN  
                                      ! Get the value and convert it from a string into binary.  
                                      CLISGET_VALUE( volume_desc, cli_desc );  
                                      IF NOT (rtn_status = [IB$CVT_DTB(.cli_desc[ DSCSW_LENGTH ],  
                                          .cli_desc[ DCSA_POINTER ], curr_volume_value))  
                                      THEN  
                                          PUT_MESSAGE( MSGS_INVQUAVAL, 2, cli_desc, volume_desc );  
                                          loc_volume_qual = TRUE;  
                                      END  
                          ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );  
                          [CLIS_LOCNEG] : IF NOT .outfile_open  
                              THEN neg_volume_qual = TRUE  
                              ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );  
                  TES:  
                  END:  
                  ! Parse the qualifiers which are applicable to both commands.  
                  ! /READ_CHECK, /WRITE_CHECK and /CONTIGUOUS  
                  loc_read_chk_qual = neg_read_chk_qual = FALSE;  
                  rtn_status = CLISPRESENT( read_check_desc );  
                  SELECTONE .rtn_status OF  
                      SET  
                          [CLIS_LOCRES] : IF NOT .outfile_open  
                              THEN loc_read_chk_qual = TRUE  
                              ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
```

```
567      1097 2
568      1098 2
569      1099 2
570      1100 2
571      1101 2
572      1102 2
573      1103 2
574      1104 2
575      1105 2
576      1106 2
577      1107 2
578      1108 2
579      1109 2
580      1110 2
581      1111 2
582      1112 2
583      1113 2
584      1114 2
585      1115 2
586      1116 2
587      1117 2
588      1118 2
589      1119 2
590      1120 2
591      1121 2
592      1122 2
593      1123 2
594      1124 2
595      1125 2
596      1126 2
597      1127 2
598      1128 2
599      1129 2
600      1130 2
601      1131 2
602      1132 2
603      1133 2
604      1134 2
605      1135 2
606      1136 2
607      1137 2
608      1138 2
609      1139 2
610      1140 2
611      1141 2
612      1142 2
613      1143 2
614      1144 2
615      1145 2
616      1146 2
617      1147 2
618      1148 2
619      1149 2
620      1150 2
621      1151 2
622      1152 2
623      1153 2

[CLIS_LOCNEG] : IF NOT .outfile_open
    THEN neg_read_chk_qual = TRUE
    ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
    TES;

loc_write_chk_qual = neg_write_chk_qual = FALSE;
rtn_status = CLISPRES( write_check_desc );
SELECTONE .rtn_status OF
    SET
[CLIS_LOCPRES] : IF NOT .outfile_open
    THEN loc_write_chk_qual = TRUE
    ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
[CLIS_LOCNEG] : IF NOT .outfile_open
    THEN neg_write_chk_qual = TRUE
    ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
    TES;

loc_contig_qual = neg_contig_qual = FALSE;
rtn_status = CLISPRES( contiguous_desc );
SELECTONE .rtn_status OF
    SET
[CLIS_LOCPRES] : IF NOT .outfile_open
    THEN loc_contig_qual = TRUE
    ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
[CLIS_LOCNEG] : IF NOT .outfile_open
    THEN neg_contig_qual = TRUE
    ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
    TES;

! /ALLOCATION
loc_alloc_qual = neg_alloc_qual = FALSE;
rtn_status = CLISPRES( allocation_desc );
SELECTONE .rtn_status OF
    SET
[CLIS_LOCPRES] : IF NOT .outfile_open
    THEN
        BEGIN
            ! Get the value and convert it from a string into binary.
            CLISGET_VALUE( allocation_desc, cli_desc );
            IF NOT (rtn_status = LIB$CVT_DIB(.cli_desc[ DSCSW_LENGTH ],
                .cli_desc[ DSCSA_POINTER ], curr_allocation_value))
            THEN
                PUT_MESSAGE( MSGS_INVQUAVAL, 2, cli_desc, allocation_desc );
                loc_alloc_qual = TRUE;
            END
        ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
[CLIS_LOCNEG] : IF NOT .outfile_open
```

```
624      1154 2      THEN neg_alloc_qual = TRUE
625      1155 2      ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
626      1156 2
627      1157 2
628      1158 2
629      1159 2
630      1160 2
631      1161 2      loc_extend_qual = neg_extend_qual = FALSE;
632      1162 2      rtn_status = CLISPRES( extension_desc );
633      1163 2      SELECTONE .rtn_status OF
634      1164 2          SET
635      1165 2          [CLIS_LOCRES] : IF NOT .outfile_open
636      1166 2              THEN
637      1167 2                  BEGIN
638      1168 2
639      1169 2          ! Get the value and and convert it from a string into binary.
640      1170 2
641      1171 2          CLISGET VALUE( extension_desc, cli_desc );
642      1172 4          IF NOT [rtn_status = LIBSCVT_DTB(.cli_desc[ DSCSW_LENGTH ],
643      1173 4                      .cli_desc[ DSCSA_POINTER ], curr_extension_value))
644      1174 2          THEN
645      1175 2              PUT_MESSAGE( MSGS_INVQUAVAL, 2, cli_desc, extension_desc );
646      1176 2              loc_extend_qual = TRUE;
647      1177 2          END
648      1178 2          ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
649      1179 2
650      1180 2      [CLIS_LOCNEG] : IF NOT .outfile_open
651      1181 2          THEN neg_extend_qual = TRUE
652      1182 2          ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
653      1183 2
654      1184 2
655      1185 2
656      1186 2      ! /FILE_MAXIMUM
657      1187 2
658      1188 2      loc_file_max_qual = neg_file_max_qual = FALSE;
659      1189 2      rtn_status = CLISPRES( file_max_desc );
660      1190 2      SELECTONE .rtn_status OF
661      1191 2          SET
662      1192 2          [CLIS_LOCRES] : IF NOT .outfile_open
663      1193 2              THEN
664      1194 2                  BEGIN
665      1195 2
666      1196 2          ! Get the value and and convert it from a string into binary.
667      1197 2
668      1198 2          CLISGET VALUE( file_max_desc, cli_desc );
669      1199 4          IF NOT [rtn_status = LIBSCVT_DTB(.cli_desc[ DSCSW_LENGTH ],
670      1200 4                      .cli_desc[ DSCSA_POINTER ], curr_file_max_value))
671      1201 3          THEN
672      1202 3              PUT_MESSAGE( MSGS_INVQUAVAL, 2, cli_desc, file_max_desc );
673      1203 3              loc_file_max_qual = TRUE;
674      1204 3          END
675      1205 2          ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
676      1206 2
677      1207 2      [CLIS_LOCNEG] : IF NOT .outfile_open
678      1208 2          THEN neg_extend_qual = TRUE
679      1209 2          ELSE PUT_MESSAGE( MSGS_REPLACE, 1, MSG_DESC );
680      1210 2
681      TES:
```

```

681      1211 2
682      1212 2
683      1213 2
684      1214 2
685      1215 2
686      1216 2
687      1217 2
688      1218 2
689      1219 2
690      1220 2
691      1221 2
692      1222 2
693      1223 2
694      1224 2
695      1225 2
696      1226 2
697      1227 2
698      1228 2
699      1229 2
700      1230 2
701      1231 2
702      1232 2
703      1233 2
704      1234 2
705      1235 1

! /PROTECTION
loc_protect_qual = neg_protect_qual = FALSE;
rtn_status = CLISPRESENT( protection_desc );
SELECTONE .rtn_status OF
    SET
        [CLIS_LOCRES] : IF NOT .outfile_open
            THEN
                BEGIN
                    ! Parse the keyword values and save the results.
                    protection_parse();
                    loc_protect_qual = TRUE;
                END
                ELSE PUT_MESSAGE( MSGS_REPLACED, 1, MSG_DESC );
        [CLIS_LOCNEG] : IF NOT .outfile_open
            THEN neg_protect_qual = TRUE
            ELSE PUT_MESSAGE( MSGS_REPLACED, 1, MSG_DESC );
        TES:
    END;
        ! routine COPY$GET_GLOBAL_QUAL

```

```

.PSECT SPLIT$,NOWRT,NOEXE,2
75 71 20 65 67 6E 61 68 63 20 74 22 6F 61 63 00110 P.ABF: .ASCII \can't change quals in the middle of the \
64 64 69 6D 20 65 68 74 20 6E 69 20 73 6C 61 0011F
20 65 68 74 20 66 6F 20 65 6C 0012E
64 6E 61 6D 6D 6F 63 00138
0000002F 0013F P.ABE: .ASCII \command\
00000000 00140 .BLKB 1
00000000 00144 P.ABE: .LONG 47
                                .ADDRESS P.ABF

```

MSG\_DESC= P.ABE

				.PSECT SCODE\$,NOWRT,2	
				.ENTRY COPY\$GET_LOCAL_QUAL, Save R2,R3,R4,R5,R6,-	: 0926
				R7,R8,R9-R10 RT1	
				#CLIS LOCRES, R11	
				COPY\$SEM_STATUS, R10	
				COPY\$MSG_NUMBER, R9	
				LIB\$SIGNL, R8	
				MSG DESC, R7	
				COPY\$CLI_STATUS+4, R6	
				#8, SP	
				#0, (SP), #0, #8, CLI_DESC	
08	00		OFFC 00000	MOVL #CLIS LOCRES, R11	
				MOVAB COPY\$SEM_STATUS, R10	
				MOVAB COPY\$MSG_NUMBER, R9	
				MOVL LIB\$SIGNL, R8	
				MOVL MSG DESC, R7	
				MOVL COPY\$CLI_STATUS+4, R6	
				SUBL #8, SP	
				MOVC #0, (SP), #0, #8, CLI_DESC	
				MOVB #2, CLI_DESC+3	
		03 AE	02 90 00020	BBS #1, COPY\$SEM_STATUS+2, 18	
	02 AA		01 E0 00031	MOVO COPY\$CLI_STATUS+8, CURR_ALLOCATION_VALUE	
1E	0000 CF	04	A6 7D 00036		

15-Sep-1984 23:37:50  
14-Sep-1984 12:14:17VAX-11 Bliss-32 V4.0-742  
DISK8VMSMASTER:[COPY.SRC]COPYCLI.B32;1Page 25  
(5)

000000000G	8F	0C	A6	D0	0003C		MOVL	COPYSCLI_STATUS+16, CURR_FILE_MAX_VALUE	0986
		10	A6	B0	00C42		MOVW	COPYSCLI_STATUS+20, CURR_PROTECTION_OR	0987
		12	A6	B0	00048		MOVW	COPYSCLI_STATUS+22, CURR_PROTECTION_AND	0988
		14	A6	D0	0004E		MOVL	COPYSCLI_STATUS+24, CURR_VOLUME_VALUE	0989
	03	FC	A6	E9	00054	1\$:	BLBC	COPYSCLI_STATUS, 2\$	0995
01	A6	017C	31	00058	1\$:	BRW			
		03	8A	0005B	2\$:	BICB2	#3, COPYSCLI_STATUS+5	1013	
00000G	CF	98	A7	9F	0005F		PUSHAB	OVERLAY_DESC	1014
	S2		01	FB	00062		CALLS	#1, CLISPRES	
	5B		50	D0	00067		MOVL	RO, RTN STATUS	
			52	D1	0006A		CMPL	RTN_STATUS, R11	1017
			08	12	0006D		BNEQ	3\$	
1A	02	AA	01	E0	0006F		BBS	#1, COPYSEM_STATUS+2, 4\$	
01	A6		01	88	00074		BISB2	#1, COPYSCLI_STATUS+5	1018
			25	11	00078		BRB	5\$	
000000000G	8F		52	D1	0007A	3\$:	CMPL	RTN_STATUS, #CLIS_LOCNEG	1021
			1C	12	00081		BNEQ	5\$	
06	02	AA	01	E0	00083		BBS	#1, COPYSEM_STATUS+2, 4\$	
01	A6		02	88	00088		BISB2	#2, COPYSCLI_STATUS+5	1022
			11	11	0008C		BRB	5\$	
			57	DD	0008E	4\$:	PUSHL	R7	1023
			01	DD	00090		PUSHL	#1	
	7E	1088	8F	3C	00092		MOVZWL	#4283, -(SP)	
	69		01	FB	00097		CALLS	#1, COPYSMMSG_NUMBER	
			50	DD	0009A		PUSHL	RO	
02	68	08	03	FB	0009C	5\$:	CALLS	#3, LIB\$SIGNAL	
02	A6		0C	8A	0009F		BICB2	#12, COPYSCLI_STATUS+6	1029
00000G	CF		A7	9F	000A3		PUSHAB	REPLACE_DESC	1030
	S2		01	FB	000A6		CALLS	#1, CLISPRES	
	5B		50	D0	000AB		MOVL	RO, RTN STATUS	
			52	D1	000AE		CMPL	RTN_STATUS, R11	1033
1A	02	AA	0B	12	000B1		BNEQ	6\$	
02	A6		01	E0	000B3		BBS	#1, COPYSEM_STATUS+2, 7\$	
			04	88	000B8		BISB2	#4, COPYSCLI_STATUS+6	1034
000000000G	8F		25	11	000BC		BRB	8\$	
			52	D1	000BE	6\$:	CMPL	RTN_STATUS, #CLIS_LOCNEG	1037
06	02	AA	1C	12	000C5		BNEQ	8\$	
02	A6		01	E0	000C7		BBS	#1, COPYSEM_STATUS+2, 7\$	
			08	88	000CC		BISB2	#8, COPYSCLI_STATUS+6	1038
			11	11	000D0		BRB	8\$	
			57	DD	000D2	7\$:	PUSHL	R7	1039
	7E	1088	8F	3C	000D6		PUSHL	#1	
	69		01	FB	000DB		MOVZWL	#4283, -(SP)	
			50	DD	000DE		CALLS	#1, COPYSMMSG_NUMBER	
01	68	0180	03	FB	000E0	8\$:	PUSHL	RO	
00000G	CF	B8	8F	AA	000E3		CALLS	#3, LIB\$SIGNAL	
	S2		A7	9F	000E9		BICW2	#384, COPYSCLI_STATUS+5	1045
	5B		01	FB	000EC		PUSHAB	TRUNCATE_DESC	1046
			50	D0	000F1		CALLS	#1, CLISPRES	
			52	D1	000F4		MOVL	RO, RTN STATUS	
			0C	12	000F7		CMPL	RTN_STATUS, R11	1049
1B	02	AA	01	E0	000F9		BNEQ	9\$	
01	A6		8F	88	000FE		BBS	#1, COPYSEM_STATUS+2, 10\$	
000000000G	8F	80	25	11	00103		BISB2	#128, COPYSCLI_STATUS+5	1050
			52	D1	00105	9\$:	BRB	11\$	
			1C	12	0010C		CMPL	RTN_STATUS, #CLIS_LOCNEG	1053
							BNEQ	11\$	

K 5  
15-Sep-1984 23:37:50  
14-Sep-1984 12:14:17VAX-11 BLISS-32 V4.0-742  
DISK\$VMSMASTER:[COPY.SRC]COPYCLI.B32;1Page 26  
(5)

06	02	AA	01	E0	0010E	BBS	#1, COPY\$SEM_STATUS+2, 108	1054	
	02	A6	01	88	00113	B1SB2	#1, COPY\$CLI_STATUS+6		
			11	11	00117	BRB	11\$		
			57	DD	00119	PUSHL	R7		
			01	DD	00118	PUSHL	#1		
			8F	3C	00110	MOVZWL	#4283, -(SP)		
			01	FB	00122	CALLS	#1, COPY\$MSG_NUMBER		
			50	DD	00125	PUSHL	RQ		
			03	FB	00127	CALLS	#3, LIB\$SIGNAL		
			18	8A	0012A	B1CB2	#24, COPY\$CLI_STATUS+5		
			A7	9F	0012E	PUSHAB	VOLUME_DESC	1061	
	01	68	01	FB	00131	CALLS	#1, CLISPRESENT	1062	
			50	DD	00136	MOVL	RO, RTN STATUS		
			52	D1	00139	CMPL	RTN_STATUS, R11		
			74	12	0013C	BNEQ	14\$		
			01	E0	0013E	BBS	#1, COPY\$SEM_STATUS+2, 158		
			5E	DD	00143	PUSHL	SP		
			A7	9F	00145	PUSHAB	VOLUME_DESC	1071	
			02	FB	00148	CALLS	#2, CLISGET_VALUE		
			CF	9F	0014D	PUSHAB	CURR_VOLUME_VALUE		
			08	AE	00151	PUSHL	CLI_DESC+4		
			7E	08	AE	3C	CLI_DESC, -(SP)	1072	
			0000G	00	03	FB	#3, LIB\$CVT_DTB	1073	
			52	50	D0	0015F	RO, RTN STATUS		
			47	52	E8	00162	BLBS	RTN_STATUS, 13\$	
			7E	00	03	FB	#4908, -(SP)	1075	
			52	50	D0	00158	CALLS	#1, COPY\$MSG_NUMBER	
			47	52	E8	00162	EMUL	#1, RO, #0, -(SP)	
			7E	08	AE	3C	EDIV	#8, (SP)+, RO, RO	
			69	01	FB	0016A	CMPL	RO, #4	
			50	01	7A	0016D	BEQL	12\$	
			8E	08	7B	00172	VOLUME_DESC		
			04	50	D1	00177	CLI_DESC		
			04	17	13	0017A	#2		
				A8	A7	9F	#4908, -(SP)		
				04	AE	9F	#1, COPY\$MSG_NUMBER		
				7E	132C	02	RO		
				69	8F	3C	#4		
				68	01	FB	LIB\$SIGNAL		
					50	00184	13\$		
					04	DD	VOLUME_DESC		
					02	00182	CLI_DESC		
					A8	A7	#2		
					04	9F	#4908, -(SP)		
					02	00189	#1, COPY\$MSG_NUMBER		
					7E	01	RO		
					69	FB	#4		
					68	0018C	LIB\$STOP		
						04	#8, COPY\$CLI_STATUS+5	1076	
						08	13\$	1065	
						25	BRB	1080	
						11	001B0	RTN_STATUS, #CLIS_LOCNEG	
						52	D1	14\$:	
						1C	001B2	CMPL	
						12	001B9	BNEQ	
						10	001BB	BBS	
						88	001C0	B1SB2	
						11	001C4	BRB	
						57	DD	15\$:	
						001C6	PUSHL	1081	
						01	DD	16\$:	
						8F	3C	PUSHL	
						01	FB	MOVZWL	
								#4283, -(SP)	
								#1, COPY\$MSG_NUMBER	

15-Sep-1984 23:37:50  
14-Sep-1984 12:14:17

VAX-11 Bliss-32 V4.0-742  
DISKSVMSMASTER:[COPY.SRC]

Page 27  
32;1 (5)

M 5  
15-Sep-1984 23:37:50  
14-Sep-1984 12:14:17

VAX-11 Bliss-32 V4.0-742  
DISKSVMMASTER:[COPY.SRC]

Page 28  
32:1 (5)



	0000G	CF	0000'	02	FB	00425	CALLS	#2, CLISGET VALUE	1199
			08	CF	9F	0042A	PUSHAB	CURR FILE MAX_VALUE	1200
	00000000G	7E	08	AE	DD	0042E	PUSHL	CLI_DESC+3	1199
			00	03	FB	00431	MOVZWL	CLI_DESC, -(SP)	
			52	50	DO	0043C	CALLS	#3, LIB\$CVT DTB	
			49	52	E8	0043F	MOVL	RO, RTN STATUS	
			7E	132C	3C	00442	BLBS	RTN STATUS, 40\$	1202
			69	01	FB	00447	MOVZWL	#4908, -(SP)	
	00	50	50	01	7A	0044A	CALLS	#1, COPYMSG NUMBER	
			8E	08	7B	0044F	EMUL	#1, RO #0, -(SP)	
			04	50	D1	00454	EDIV	#8, (SP)+, RO, RO	
				18	13	00457	CMPL	RO, #4	
				FF4C	C7	00459	BEQL	39\$	
				04	AE	9F	PUSHAB	FILE_MAX_DESC	
					02	00460	PUSHL	CLI_DESC	
	7E	132C	69	8F	3C	00462	MOVZWL	#4908, -(SP)	
				01	FB	00467	CALLS	#1, COPYMSG_NUMBER	
				50	DD	0046A	PUSHL	RO	
			68	04	FB	0046C	CALLS	#4, LIB\$SIGNAL	
				1A	11	0046F	BRB	40\$	
				FF4C	C7	9F	00471	39\$:	
				04	AE	9F	PUSHAB	FILE_MAX_DESC	
					02	00475	PUSHAB	CLI_DESC	
	7E	132C	69	8F	3C	0047A	MOVZWL	#4908, -(SP)	
				01	FB	0047F	CALLS	#1, COPYMSG_NUMBER	
				50	DD	00482	PUSHL	RO	
	00000000G	00	04	FB	00484	40\$:	CALLS	#4, LIB\$STOP	1203
		FF	A6	08	88	0048B	BISB2	#8, COPY\$CLI_STATUS+3	1192
	00000000G	8F	25	11	0048F	41\$:	BRB	44\$	1207
				52	D1	00491	CMPL	RTN_STATUS, #CLIS_LOCNEG	
				1C	12	00498	BNEQ	44\$	
	06	02	AA	01	E0	0049A	42\$:	#1, COPY\$SEM_STATUS+2, 43\$	1208
		FF	A6	02	88	0049F	BISB2	#2, COPY\$CLI_STATUS+3	
				11	11	004A3	BRB	44\$	
				57	DD	004A5	PUSHL	R7	1209
				01	DD	004A7	PUSHL	#1	
		7E	108B	8F	3C	004A9	MOVZWL	#4283, -(SP)	
			69	01	FB	004AE	CALLS	#1, COPYMSG_NUMBER	
				50	DD	004B1	PUSHL	RO	
		FF	68	03	FB	004B3	CALLS	#3, LIB\$SIGNAL	1215
			A6	CO	8F	004B6	44\$:	#192, COPY\$CLI_STATUS+3	1216
	0000G	CF	FF60	C7	9F	004BB	PUSHAB	PROTECTION DESC	
				01	FB	004BF	CALLS	#1, CLISPRESENT	
			52	50	DO	004C4	MOVL	RO, RTN STATUS	
			5B	52	D1	004C7	CMPL	RTN_STATUS, R11	1217
				10	12	004CA	BNEQ	45\$	
	1F	02	AA	01	E0	004CC	BBS	#1, COPY\$SEM_STATUS+2, 46\$	1225
	0000V	CF	00	FB	004D1	CALLS	#0, PROTECTIONPARSE		1226
		FF	A6	40	88	004D6	BISB2	#64, COPY\$CLI_STATUS+3	1219
	00000000G	8F		04	004DB	45\$:	RET	RTN_STATUS, #CLIS_LOCNEG	1230
				52	D1	004DC	CMPL	47\$	
				1C	12	004E3	BNEQ		
				01	E0	004E5	BBS	#1, COPY\$SEM_STATUS+2, 46\$	1231
	06	02	AA	80	8F	004EA	BISB2	#128, COPY\$CLI_STATUS+3	
		FF	A6	04	004EF	46\$:	RET		
				57	DD	004F0	PUSHL	R7	1232

7E	108B	01	DD 004F2	PUSHL #1
69		8F	3C 004F4	MOVZWL #4283, -(SP)
		01	FB 004F9	CALLS #1, COPY\$MSG_NUMBER
68		50	DD 004FC	PUSHL R0
		03	FB 004FE	CALLS #3, LIB\$SIGNAL
		04	00501 47\$:	RET

1235

; Routine Size: 1282 bytes, Routine Base: \$CODE\$ + 0386

```
1236 1 ROUTINE PROTECTION_PARSE : NOVALUE =
1237 1
1238 1 |++ FUNCTIONAL DESCRIPTION:
1239 1 | This routine parses a PROTECTION qualifier value.
1240 1
1241 1 FORMAL PARAMETERS:
1242 1 | NONE
1243 1
1244 1 IMPLICIT INPUTS:
1245 1 | NONE
1246 1
1247 1 IMPLICIT OUTPUTS:
1248 1 | Curr_Protection_Or - Protection mask storage
1249 1 | Curr_Protection_And - Protection mask storage
1250 1
1251 1 ROUTINE VALUE:
1252 1 | None
1253 1
1254 1 | SIDE EFFECTS:
1255 1 | None
1256 1
1257 1 | --
1258 1 | BEGIN
1259 1
1260 1 | MAP
1261 1 | | Curr_Protection_Or : $BLOCK[ 2 ];
1262 1 | | Curr_Protection_And : $BLOCK[ 2 ];           ! Protection mask
1263 1 | | LOCAL
1264 1 | | | RTN_Status,
1265 1 | | | CLI_Desc :
1266 1 | | | $BLOCK[ DSC$C_S_BLN ].                 ! Keyword lookup completion code
1267 1 | | | KEY_DisP:                                ! Descriptor which points to the keyword value
1268 1 | | | KEY_DisP:                                ! Displacement of keyword nibble in XABSW_PRO
1269 1 | | BIND
1270 1 | | | SYSTEM_DESC = $DESCRIPTOR('SYSTEM'),
1271 1 | | | OWNER_DESC = $DESCRIPTOR('OWNER'),
1272 1 | | | GROUP_DESC = $DESCRIPTOR('GROUP'),
1273 1 | | | WORLD_DESC = $DESCRIPTOR('WORLD');
1274 1 | | |
1275 1 | | |主人
1276 1 | | |
1277 1 | | |主人
1278 1 | | |
1279 1 | | |主人
1280 1 | | |
1281 1 | | |主人
1282 1 | | |
1283 1 | | |主人
1284 1 | | |
1285 1 | | |主人
1286 1 | | |
1287 1 | | |主人
1288 1 | | |
1289 1 | | |主人
1290 1 | | |
1291 1 | | |主人
1292 1 | | |主人
```

```
: 764      1293 2      ! IF CLISPRESENT( SYSTEM_DESC )
: 765      1294          THEN
: 766      1295          BEGIN
: 767      1296          ! Note that this is SYSTEM access. Initialize the the system protection
: 768      1297          fields, in case noaccess is specified.
: 769      1298          KEY DISP = BIT LOCATION( XABSV_SYS );
: 770      1299          CURR_PROTECTION_ORC[ prot_mask( .KEY_DISP, 4) ] = -1;
: 771      1300          CURR_PROTECTION_ANDE[ prot_mask( .KEY_DISP, 4) ] = 0;
: 772      1301          ! Retrieve the keyword value, if any, and parse it.
: 773      1302          IF CLISGET_VALUE( SYSTEM_DESC, CLI_DESC )
: 774      1303          THEN
: 775      1304              PARSE_PROTECTION_VALUE( CLI_DESC, .KEY_DISP );
: 776      1305          END:                                     ! SYSTEM parse
: 777      1306
: 778      1307
: 779      1308
: 780      1309
: 781      1310
: 782      1311
: 783      1312
: 784      1313
: 785      1314          ! Check for OWNER keyword.
: 786      1315          IF CLISPRESENT( OWNER_DESC )
: 787      1316          THEN
: 788      1317          BEGIN
: 789      1318          ! Note that this is OWNER access. Initialize the the OWNER protection
: 790      1319          fields, in case noaccess is specified.
: 791      1320          KEY DISP = BIT LOCATION( XABSV_OWN );
: 792      1321          CURR_PROTECTION_ORC[ prot_mask( .KEY_DISP, 4) ] = -1;
: 793      1322          CURR_PROTECTION_ANDE[ prot_mask( .KEY_DISP, 4) ] = 0;
: 794      1323          ! Retrieve the keyword value, if any, and parse it.
: 795      1324          IF CLISGET_VALUE( OWNER_DESC, CLI_DESC )
: 796      1325          THEN
: 797      1326              PARSE_PROTECTION_VALUE( CLI_DESC, .KEY_DISP );
: 798      1327          END:                                     ! OWNER parse
: 799      1328
: 800      1329
: 801      1330
: 802      1331
: 803      1332
: 804      1333
: 805      1334
: 806      1335
: 807      1336          ! Check for GROUP keyword.
: 808      1337          IF CLISPRESENT( GROUP_DESC )
: 809      1338          THEN
: 810      1339          BEGIN
: 811      1340          ! Note that this is GROUP access. Initialize the the GROUP protection
: 812      1341          fields, in case noaccess is specified.
: 813      1342          KEY DISP = BIT LOCATION( XABSV_GRP );
: 814      1343          CURR_PROTECTION_ORC[ prot_mask( .KEY_DISP, 4) ] = -1;
: 815      1344          CURR_PROTECTION_ANDE[ prot_mask( .KEY_DISP, 4) ] = 0;
: 816      1345          ! Retrieve the keyword value, if any, and parse it.
: 817      1346
: 818      1347
: 819      1348
: 820      1349
```

```

821      1350   3
822      1351
823      1352
824      1353
825      1354
826      1355
827      1356
828      1357
829      1358
830      1359
831      1360
832      1361
833      1362
834      1363
835      1364
836      1365
837      1366
838      1367
839      1368
840      1369
841      1370
842      1371
843      1372
844      1373
845      1374
846      1375
847      1376
848      1377
849      1378
850      1379
851      1380   1

        IF CLISGET_VALUE( GROUP_DESC, CLI_DESC )
        THEN
          PARSE_PROTECTION_VALUE( CLI_DESC, .KEY_DISP );
        END;                                ! GROUP parse

        ! Check for WORLD keyword.

        IF CLISPRESNT( WORLD_DESC )
        THEN
          BEGIN
            ! Note that this is WORLD access. Initialize the the WORLD protection
            ! fields, in case noaccess is specified.

            KEY_DISP = BIT_LOCATION( XABSV_WLD );
            CURR_PROTECTION_OR[ prot_mask(.KEY_DISP, 4) ] = -1;
            CURR_PROTECTION_AND[ prot_mask(.KEY_DISP, 4) ] = 0;

            ! Retrieve the keyword value, if any, and parse it.

            IF CLISGET_VALUE( WORLD_DESC, CLI_DESC )
            THEN
              PARSE_PROTECTION_VALUE( CLI_DESC, .KEY_DISP );
            END;                                ! WORLD parse

          RETURN;
        END;                                ! Return to the caller.
      END;
```

.PSECT SPLIT\$,NOWRT,NOEXE,2

4D 45 54 53 59 53	00148 P.ABH:	.ASCII \SYSTEM\	:
	0014E	.BLKB 2	:
	00000006		:
	00000000		:
52 45 4E 57 4F	00150 P.ABG:	.LONG 6	:
	00154	.ADDRESS P.ABH	:
	00158 P.ABJ:	.ASCII \OWNER\	:
	0015D	.BLKB 3	:
	00000005		:
	00000000		:
50 55 4F 52 47	00160 P.ABI:	.LONG 5	:
	00164	.ADDRESS P.ABJ	:
	00168 P.ABL:	.ASCII \GROUP\	:
	0016D	.BLKB 3	:
	00000005		:
	00000000		:
44 4C 52 4F 57	00170 P.ABK:	.LONG 5	:
	00174	.ADDRESS P.ABL	:
	00178 P.ABN:	.ASCII \WORLD\	:
	0017D	.BLKB 3	:
	00000005		:
	00000000		:
	00180 P.ABM:	.LONG 5	:
	00184	.ADDRESS P.ABM	:

SYSTEM_DESC=	P.ABG
OWNER_DESC=	P.ABI
GROUP_DESC=	P.ABK
WORLD_DESC=	P.ABM

.PSECT SCODES,NOWRT,2

07FC 00000 PROTECTION PARSE

CPU PROTECTION_HANDLER												
										WORD	Save R2, R3, R4, R5, R6, R7, R8, R9, R10	1236
08	00	5A	0000V	CF	9E	00002		MOVAB		PARSE PROTECTION_VALUE, R10		
		59	0000G	CF	9E	00007		MOVAB		CLI\$GET_VALUE, R9		
		58	0000G	CF	9E	0000C		MOVAB		CLISPRESNT, R8		
		57	0000	CF	9E	00011		MOVAB		SYSTEM_DESC, R7		
		56	0000	CF	9E	00016		MOVAB		CURR_PROTECTION_OR, R6		
		5E	6E	08	C2	0001B		SUBL	#8, SP			
			00	2C	0001E		MOVCS	#0, (SP), #0, #8, CLI_DESC			1288	
		03	AE	02	90	00024		MOVB	#2, CLI_DESC+3			
			57	57	DD	00028		PUSHL	R7			
			68	01	FB	0002A		CALLS	#1, CLISPRESNT			1289
			23	50	E9	0002D		BLBC	R0, 1S			1294
04	66 A6	04	52	FFFFFFF	52	D4	00030	CLRL	KEY_DISP			1301
			52	4080	8F	F0	00032	INSV	#-1, KEY_DISP, #4, CURR_PROTECTION_OR			1302
					00	F0	0003B	INSV	#0, KEY_DISP, #4, CURR_PROTECTION_AND			1303
			69	8F	BB	00041		PUSHR	#^M<R7 SP>			1307
			08	02	FB	00045		CALLS	#2, CLISPGET_VALUE			
				50	E9	00048		BLBC	R0, 1S			
				52	DD	0004B		PUSHL	KEY_DISP			
				AE	9F	0004D		PUSHAB	CLI_DESC			1309
			6A	02	FB	00050		CALLS	#2, PARSE_PROTECTION_VALUE			
				68	A7	9F	00053	18:	PUSHAB	OWNER_DESC		
				01	FB	00056		CALLS	#1, CLISPRESNT			1316
				25	50	E9	00059	BLBC	R0, 2S			
				52	04	DD	0005C	MOVL	#4, KEY_DISP			1323
04	66 A6	04	52	FFFFFFF	8F	F0	0005F	INSV	#-1, KEY_DISP, #4, CURR_PROTECTION_OR			1324
			52	00	F0	00068		INSV	#0, KEY_DISP, #4, CURR_PROTECTION_AND			1325
				5E	DD	0006E		PUSHL	SP			1329
				10	A7	9F	00070	PUSHAB	OWNER_DESC			
			69	02	FB	00073		CALLS	#2, CLISPGET_VALUE			
			08	50	E9	00076		BLBC	R0, 2S			
				52	DD	00079		PUSHL	KEY_DISP			1331
				AE	9F	0007B		PUSHAB	CLI_DESC			
			6A	02	FB	0007E		CALLS	#2, PARSE_PROTECTION_VALUE			
				68	A7	9F	00081	28:	PUSHAB	GROUP_DESC		
				01	FB	00084		CALLS	#1, CLISPRESNT			1338
				25	50	E9	00087	BLBC	R0, 3S			
				52	08	DD	0008A	MOVL	#8, KEY_DISP			1345
04	66 A6	04	52	FFFFFFF	8F	F0	0008D	INSV	#-1, KEY_DISP, #4, CURR_PROTECTION_OR			1346
			52	00	F0	00096		INSV	#0, KEY_DISP, #4, CURR_PROTECTION_AND			1347
				5E	DD	0009C		PUSHL	SP			1351
				20	A7	9F	0009E	PUSHAB	GROUP_DESC			
			69	02	FB	000A1		CALLS	#2, CLISPGET_VALUE			
			08	50	E9	000A4		BLBC	R0, 3S			
				52	DD	000A7		PUSHL	KEY_DISP			1353
				04	AE	9F	000A9	PUSHAB	CLI_DESC			
			6A	02	FB	000AC		CALLS	#2, PARSE_PROTECTION_VALUE			
				30	A7	9F	000AF	38:	PUSHAB	WORLD_DESC		
			68	01	FB	000B2		CALLS	#1, CLISPRESNT			1360
			25	50	E9	000B5		BLBC	R0, 4S			
			52	0C	DD	000B8		MOVL	#12, KEY_DISP			1367

04	66	04	52 FFFFFFFF	8F	F0 000BB	INSV	#-1, KEY_DISP, #4, CURR_PROTECTION_OR	: 1368
	A6		52 00	F0	000C4	INSV	#0, KEY_DISP, #4, CURR_PROTECTION_AND	: 1369
			5E	DD	000CA	PUSHL	SP	: 1373
			30	A7	9F 000CC	PUSHAB	WORLD_DESC	
			69	02	FB 000CF	CALLS	#2, C[ISGET_VALUE	
			08	50	E9 000D2	BLBC	R0, 4\$	
				52	DD 000D5	PUSHL	KEY_DISP	: 1375
				04	AE 9F 000D7	PUSHAB	CLI_DESC	
				02	FB 000DA	CALLS	#2, PARSE_PROTECTION_VALUE	
				04	000DD 4\$:	RET		: 1380

; Routine Size: 222 bytes.    Routine Base: \$CODES + 0888

```
853    1381 1 ROUTINE PARSE_PROTECTION_VALUE( DESC : REF SBBLOCK,  
854    1382 1 FIELD_LOCATION ) : NOVALUE =  
855    1383 1  
856    1384 1 ++  
857    1385 1  
858    1386 1 FUNCTIONAL DESCRIPTION:  
859    1387 1  
860    1388 1 This routine parses the keyword value given by the /PROTECTION  
861    1389 1 qualifier. (/PROTECTION=(s:rewd))  
862    1390 1  
863    1391 1 FORMAL PARAMETERS:  
864    1392 1  
865    1393 1 DESC the address of a descriptor which points to the  
866    1394 1 keyword value.  
867    1395 1 FIELD_LOCATION the offset of the appropriate protection field  
868    1396 1  
869    1397 1 IMPLICIT INPUTS:  
870    1398 1  
871    1399 1 None  
872    1400 1  
873    1401 1 IMPLICIT OUTPUTS:  
874    1402 1 bits will be set in Curr_PROTECTION_OR  
875    1403 1  
876    1404 1 ROUTINE VALUE:  
877    1405 1  
878    1406 1 None  
879    1407 1  
880    1408 1  
881    1409 1 COMPLETION CODES:  
882    1410 1  
883    1411 1 None  
884    1412 1  
885    1413 1 SIDE EFFECTS:  
886    1414 1  
887    1415 1 None  
888    1416 1  
889    1417 1 --  
890    1418 1  
891    1419 2 BEGIN  
892    1420 2  
893    1421 2 LOCAL  
894    1422 2 RTN_STATUS,  
895    1423 2 BIT_DISP,  
896    1424 2 CHAR_DESC : SBBLOCK[ DSCSC_S_BLN ] ! status returned from external calls  
897    1425 2 ; ! Location of bit to be set in protection field  
898    1426 2  
899    1427 2  
900    1428 2 ! The descriptor points to only one character at a time.  
901    1429 2  
902    1430 2 CHSFILL( 0, DSCSC_S_BLN, char_desc );  
903    1431 2 CHAR_DESC[ DSC$W_LENGTH ] = 1;  
904    1432 2  
905    1433 2  
906    1434 2 ! Process the keyword value one character at a time.  
907    1435 2  
908    1436 2 INCR INDEX FROM 0 TO .DESC[ DSC$W_LENGTH ]-1 DO  
909    1437 3 BEGIN
```

```

910      1438 3
911      1439 3
912      1440 3
913      1441 3
914      1442 3
915      1443 4
916      1444 3
917      1445 4
918      1446 4
919      1447 4
920      1448 4
921      1449 4
922      1450 4
923      1451 3
924      1452 3
925      1453 3
926      1454 3
927      1455 3
928      1456 3
929      1457 2
930      1458 1

CHAR_DESC[ DSCSA_POINTER ] = .DESC[ DSCSA_POINTER ] + .INDEX;
! Look up the keyword in the keyword table.
IF NOT (RTN_STATUS = LIB$LOOKUP_KEY( CHAR_DESC, COPY$PROT_VALUE, BIT_DISP ) )
THEN
    BEGIN
        ! No character match was found, signal the error and return to caller.
        PUT_MESSAGE( MSG$_BADVALUE, 1, .desc );
        RETURN;
    END;

! Clear the mask bit which corresponds to the protection attribute.
CURR_PROTECTION_OR[prot_mask( .FIELD_LOCATION + .BIT_DISP, 1 )] = NO;
END;
END;                                ! End of single character value loop.
                                         ! End of routine PARSE_PROTECTION_VAL

```

003C 00000 PARSE_PROTECTION_VALUE:								
				WORD	Save R2,R3,R4,R5			1381
08	00	SE	0C 00002	SUBL2	#12. SP			1430
		6E	00 2C 00005	MOVC5	#0, (SP), #0, #8, CHAR_DESC			
		04	AE 0000A	MOVW	#1, CHAR_DESC			1431
		AE	01 B0 0000C	MOVZWL	#DESC, R4			1436
		54	04 BC 00010	MOVL	DESC, R2			1439
		52	04 AC 00014	MNEGL	#1, INDEX			1455
		53	01 CE 00018	BRB	3\$			
			40 11 00018	MOVAB	@4(R2)[INDEX], CHAR_DESC+4			1439
		08	AE 04 B243 9E 0001D 1\$:	PUSHL	SP			1443
			5E DD 00023	PUSHAB	COPY\$PROT_VALUE			
		04	CF 9F 00025	PUSHAB	CHAR DESC			
			0000G 0C AE 9F 00029	CALLS	#3, [IB\$LOOKUP_KEY			
		00000000G	00 03 FB 0002C	MOVL	R0, RTN STATUS			
		55	50 DD 00033	BLBS	RTN STATUS, 2\$			
		19	55 E8 00036	PUSHL	DESC			
			04 AC DD 00039	PUSHL	#1			
		0000G	01 01 DD 0003C	MOVZWL	#4372, -(SP)			
		CF	1114 8F 3C 0003E	CALLS	#1, COPY\$MSG_NUMBER			
		0000G	00 01 FB 00043	PUSHL	R0			
		00000000G	00 50 DD 00048	CALLS	#3, LIB\$STOP			
			03 FB 0004A	RET				
		0000G	04 00051	ADDL3	BIT_DISP, FIELD_LOCATION, R0			1445
		0000	08 AC 6E C1 00052 2\$:	BBCC	R0, CURR_PROTECTION_OR, 3\$			1455
		CF	50 E5 00057	A0BLSS	R4, INDEX, 1\$			1436
		BC	53 54 F2 0005D 3\$:	RET				1458

: Routine Size: 98 bytes, Routine Base: \$CODE\$ + 0966

: 931 1459 1  
: 932 1460 1 END  
: 933 1461 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$PLITS	392	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$GLOBALS	28	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	2504	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_\$255\$DUA28:[SYSLIB]STARLET.L32:1	9776	65	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:[COPYCLI]/OBJ=OBJ\$:[COPYCLI] MSRC\$:[COPYCLI]/UPDATE=(ENH\$:[COPYCLI])

: Size: 2504 code + 420 data bytes  
: Run Time: 00:41.2  
: Elapsed Time: 01:25.4  
: Lines/CPU Min: 2129  
: Lexemes/CPU-Min: 21307  
: Memory Used: 369 pages  
: Compilation Complete

0067 AH-BT13A-SE  
VAX/VMS V4.0

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